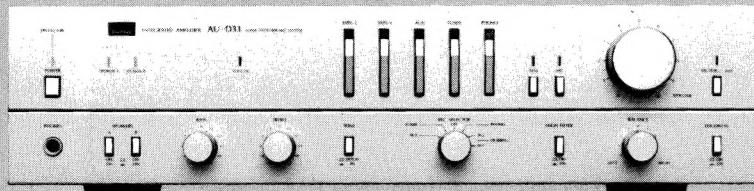


# SERVICE MANUAL

## INTEGRATED AMPLIFIER SANSUI AU-D33/D22



### • SPECIFICATIONS

#### <AU-D33>

##### Power output

MIN. RMS, both channels driven, from 20 to 20,000 Hz with no more than 0.004 % total harmonic distortion

50 watts per channel into 8 ohms

##### Load impedance . . . . .

8 ohms

##### Total harmonic distortion

. . . . . less than 0.004 % at or below rated min. RMS power output

##### Intermodulation distortion (60 Hz : 7 kHz = 4:1 SMPTE method) . . . . .

less than 0.006 % at rated

##### Frequency response (at 1 watt)

Overall (from AUX) . DC to 300,000 Hz +0 dB, -3.0 dB

##### RIAA curve deviation (PHONO-MM, 20 Hz to 100 kHz)

. . . . . +0.2 dB, -0.5 dB (REC OUT)

##### Damping factor (1 kHz, both channels driven)

. . . . . 40 into 8 ohms

##### Input sensitivity and impedance (at 1 kHz)

PHONO-MC . . . . . 250  $\mu$ V/100 ohms

(Max. input capability: 12 mV at 1 kHz, less than 0.1 % total harmonic distortion)

##### PHONO-MM . . . . . 2.5 mV/47 kilohms

(Max. input capability: 170 mV at 1 kHz, less than 0.01 % total harmonic distortion)

##### AUX, TUNER, TAPE PLAY-1, 2

. . . . . 200 mV/47 kilohms

##### Output level (1,000 Hz)

TAPE REC-1, 2 . . . . . 200 mV into 47 kilohms

##### Channel separation (1 kHz, at rated power output)

PHONO-MM . . . . . 72 dB

##### AUX, TUNER, TAPE PLAY-1, 2

. . . . . 90 dB

##### Signal to noise ratio (short-circuit, A-network)

PHONO-MC . . . . . 65 dB

PHONO-MM . . . . . 84 dB

##### AUX, TUNER, TAPE PLAY-1, 2

. . . . . 105 dB

##### Controls

BASS . . . . .  $\pm 10$  dB at 50 Hz

TREBLE . . . . .  $\pm 10$  dB at 10 kHz

LOUDNESS . . . . . +8 dB at 100 Hz

+5 dB at 10 kHz

##### Others

##### Power voltage . . . . . 100/120/220/240 V (50/60 Hz)

For U.S.A. and Canada

. . . . . 120 V (60 Hz)

##### Power consumption . . . . . 210 watts 240 VA Rated

300 watts Maximum

##### Dimensions . . . . . 430 mm (16-15/16") W

112 mm (4-7/16") H

334 mm (13-3/16") D

##### Weight . . . . . 7.3 kg (16.1 lbs.) net

8.3 kg (18.3 lbs.) packed

to be continued▶

*Sansui*

SANSUI ELECTRIC CO., LTD.

## &lt;AU-D22&gt;

**Power output**

MIN. RMS, both channels driven, from 20 to 20,000 Hz with no more than 0.006 % total harmonic distortion

35 watts per channel into 8 ohms

**Load impedance** . . . . . 8 ohms

**Total harmonic distortion**

. . . . . less than 0.006 % at or below rated min. RMS power output

**Intermodulation distortion** (60 Hz : 7 kHz = 4:1 SMPTE method) . . . . . less than 0.007 % at rated

**Frequency response** (at 1 watt)

Overall (from AUX) . 20 to 300,000 Hz +0 dB, -3.0 dB

**RIAA curve deviation** (PHONO-MM, 20 Hz to 100 kHz) . . . . . +0.2 dB, -0.5 dB (REC OUT)

**Damping factor** (1 kHz, both channels driven) . . . . . 40 into 8 ohms

**Input sensitivity and impedance** (at 1 kHz)

PHONO-MC . . . . . 250  $\mu$ V/100 ohms

(Max. input capability: 12 mV at 1 kHz, less than 0.1 % total harmonic distortion)

PHONO-MM . . . . . 2.5 mV/47 kilohms

(Max. input capability: 170 mV at 1 kHz, less than 0.01 % total harmonic distortion)

AUX, TUNER, TAPE PLAY-1, 2

. . . . . 200 mV/47 kilohms

**Output level** (1,000 Hz)

TAPE REC-1, 2 . . . . . 200 mV into 47 kilohms

**Channel separation** (1 kHz, at rated power output)

PHONO-MM . . . . . 60 dB

AUX, TUNER, TAPE PLAY-1, 2

. . . . . 90 dB

**Signal to noise ratio (short-circuit, A-network)**

PHONO-MC . . . . . 65 dB

PHONO-MM . . . . . 84 dB

AUX, TUNER, TAPE PLAY-1, 2

. . . . . 105 dB

**Controls**

BASS . . . . .  $\pm 10$  dB at 50 Hz

TREBLE . . . . .  $\pm 10$  dB at 10 kHz

LOUDNESS . . . . . +8 dB at 100 Hz

+5 dB at 10 kHz

**Others**

**Power voltage** . . . . . 100/120/220/240 V (50/60 Hz)

For U.S.A. and Canada

. . . . . 120 V (60 Hz)

**Power consumption** . . . . . 160 watts 190 VA Rated

270 watts Maximum

**Dimensions** . . . . . 430 mm (16-15/16") W

112 mm (4-7/16") H

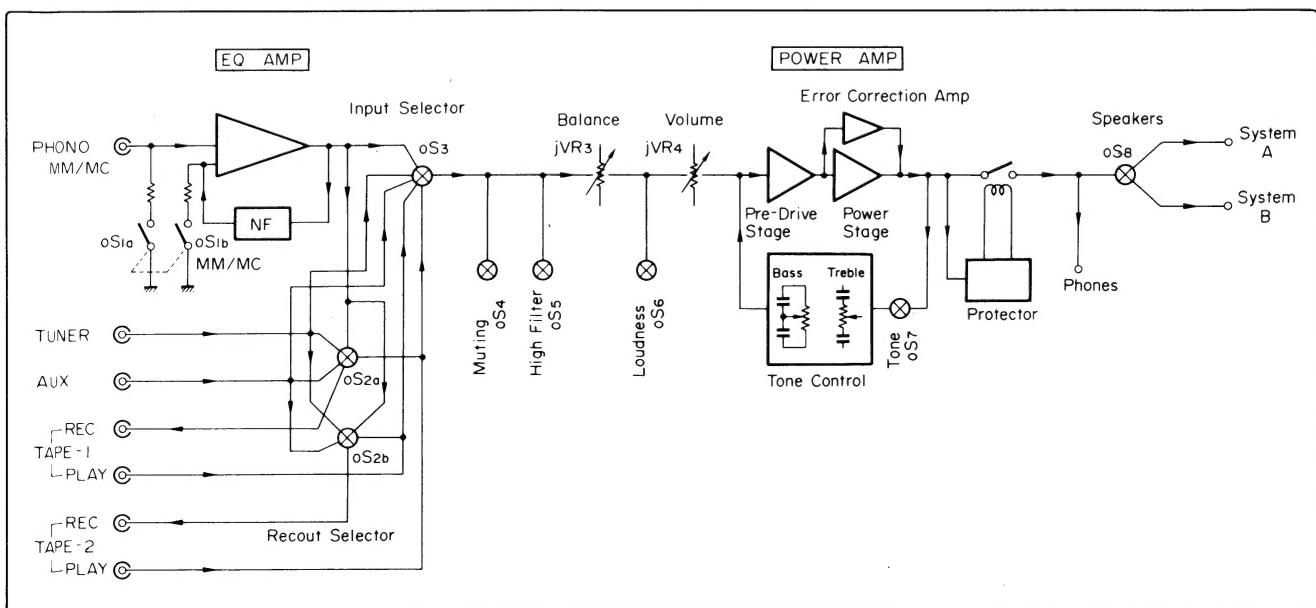
334 mm (13-3/16") D

**Weight** . . . . . 6.8 kg (15.0 lbs.) net

7.8 kg (17.2 lbs.) packed

\* Design and specifications subject to change without notice for improvements.

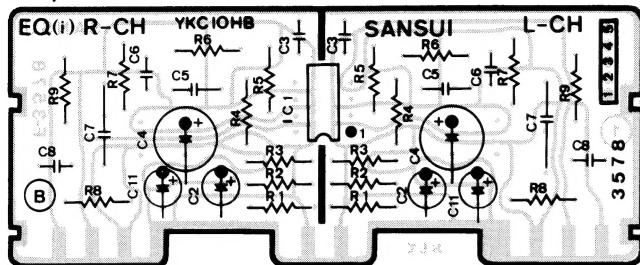
## 1. BLOCK DIAGRAM



## 2. PARTS LOCATION & PARTS LIST

### 2-1. F-3578 Equalizer Amp Circuit Board (Stock No. 00655401 = AU-D33/00662401 = AU-D22)

Component Side



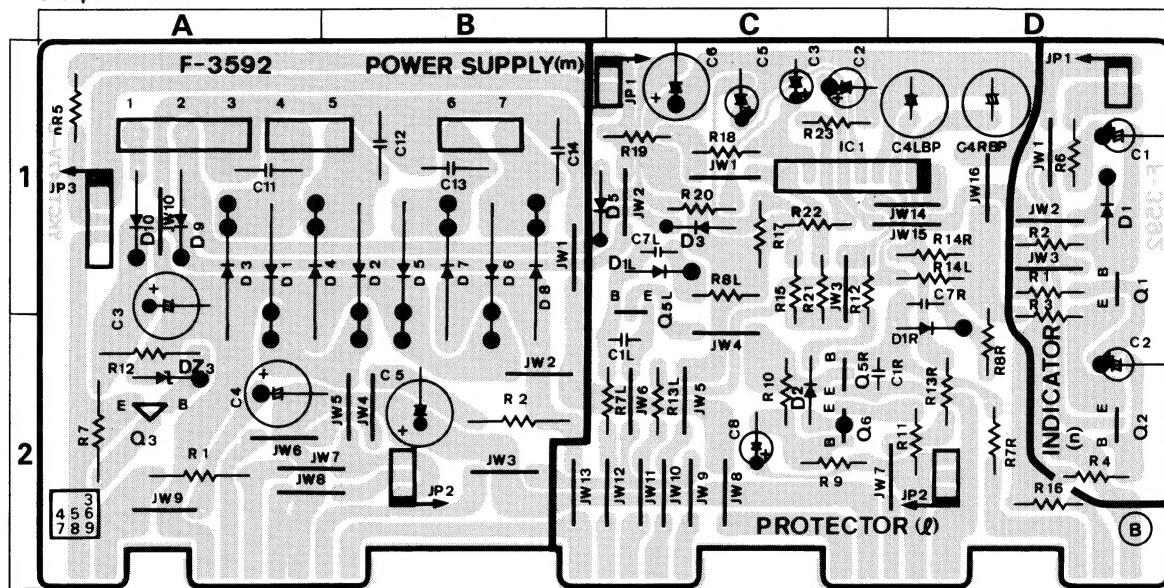
• Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors, which was appended previously to Sansui Manual.

Parts List

Parts No.	Stock No.	Description
•IC IIC1	46151400	NJM2043D

### 2-2. F-3592 Power Supply, Protector Circuit Board (Stock No. 00657101 = AU-D33/00671701 = AU-D22)

Component Side



Parts List

Parts No.	Stock No.	Description
•IC IIC1	46207600	TA7317P
•Diode ID1 ~ 3	03117600	1S2473
ID5	03117600	1S2473
IC4	08460200	220μF 6.3V E.B.
•Transistor mQ3	03083902	2SD313
•Diode mD9, 10	03117700	10E-2
•Zener Diode mDZ3	03178800	RD12E-B
mR7	00184900	82Ω 1W N.I.R.
mC11 ~ 14	08680400	0.01μF 500V C.C.
•Transistor nQ1	03068301 or 03059501	2SC2320 2SC945
nQ2	03068301 or 03059501	2SC2320 2SC945

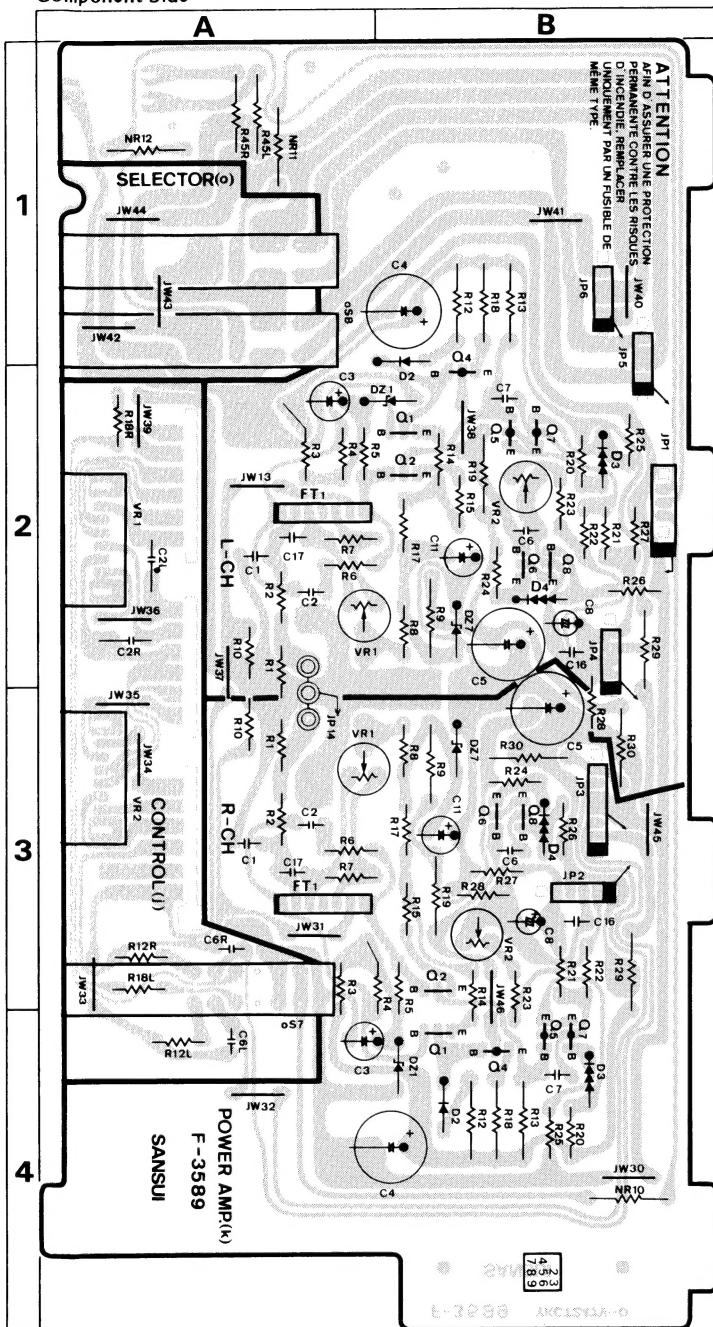
Parts No.	Stock No.	Description
•Diode nd1	03117600	1S2473
<AU-D33>		
•Transistor IQ5	03065501 or 03067401	2SC1775 2SC1845
IQ6	03009301 or 03010901	2SA872 2SA992
•Diode mD1 ~ 8	03115300	30D-2
<AU-D22>		
•Transistor IQ5	03067401	2SC1845
IQ6	03010901	2SA992
•Diode mD1 ~ 8	03117700	10E-2

### 2-3. F-3590 Power Amp Circuit Board (Stock No. 00656901 = AU-D33)

Component Side		Parts List		
		Parts No.	Stock No.	Description
A	B	● Transistor		
		kQ9	03068301 or 03059501	2SC2320 2SC945
		kQ10	03085201	2SD438
		kQ11	03033601	2SB560MP
		kQ12	07263501	2SD600
		kQ13	07263401	2SB631
		kQ14	03086101	2SD357
		kQ15	03034401	2SB527
		kQ16	46169901	2SC2579LBR
		kQ17	46169801	2SA1104LBR
		● Diode		
		kD5	03117600	1S2473
		kD6	03117600	1S2473
		kR39	46184100	0.22Ω x 2 5W Ce.R.
		kR42	00190600	4.7Ω 2W N.I.R.
		kL1	46027200	1μH Inductor
		● Transistor		
		IQ1	03068301 or 03059501 or 07194801	2SC2320 2SC945 2SC1815
		IQ2	03068301 or 03059501 or 07194801	2SC2320 2SC945 2SC1815
		IQ3	03012701 or 07197001	2SA999 2SA733A
		IQ4	03012701 or 07194701 or 07197001 or 07194701	2SA999 2SA1015 2SA733A 2SA1015
		● Diode		
		ID4	03117700	10E-2
		IRL1	46152000	Relay
		● Transistor		
		mQ1	03085201	2SD438
		mQ2	03033601	2SB560MP
		● Zener Diode		
		mDZ1	03180000	RD22E
		mDZ2	03180000	RD22E
		mC1	46151600	8200μF 50V E.C.
		mC2	46151600	8200μF 50V E.C.
			46094600	8P Output Terminal

## 2-4. F-3589 Pre Drive Amp Circuit Board (Stock No. 00656801 = AU-D33)

## **Component Side**



## Parts List

<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
<b>● Transistor</b>		
kQ1	03067401	2SC1845
	or 07299101	2SC2240
kQ2	03067401	2SC1845
	or 07299101	2SC2240
kQ4	03010901	2SA992
	or 07299001	2SA970
kQ5	03010901	2SA992
	or 07299001	2SA970
kQ6	03067401	2SC1845
	or 07299101	2SC2240
kQ7	03007901	2SA899
kQ8	03064001	2SC1904
<b>● FET</b>		
kFT1	07110001	$\mu$ PA68H
<b>● Diode</b>		
kD2	03117600	1S2473
<b>● Varistor</b>		
kD3	03401700	MV-103
kD4	03401700	MV-103
<b>● Zener Diode</b>		
kDZ1	03179600	RD18E-B
kDZ7	03180000	RD22E
kR45	00181200	220Ω 1W N.I.R.
kVR1	10350100	Semi Variable Resistor 100Ω (B), DC 0V
kVR2	10350700	Semi Variable Resistor 1kΩ (B), bias
oS7	46162100	Push Switch, tone selector
oS8	46161800	Push Switch, speaker A/B
oJ1	07204100	Head Phone Jack (Silver Model)
	46096600	Head Phone Jack (Black Model)
jVR1	46159800	Variable Resistor 50kΩ (C) x 2, bass
jVR2	46159800	Variable Resistor 50kΩ (C) x 2, treble

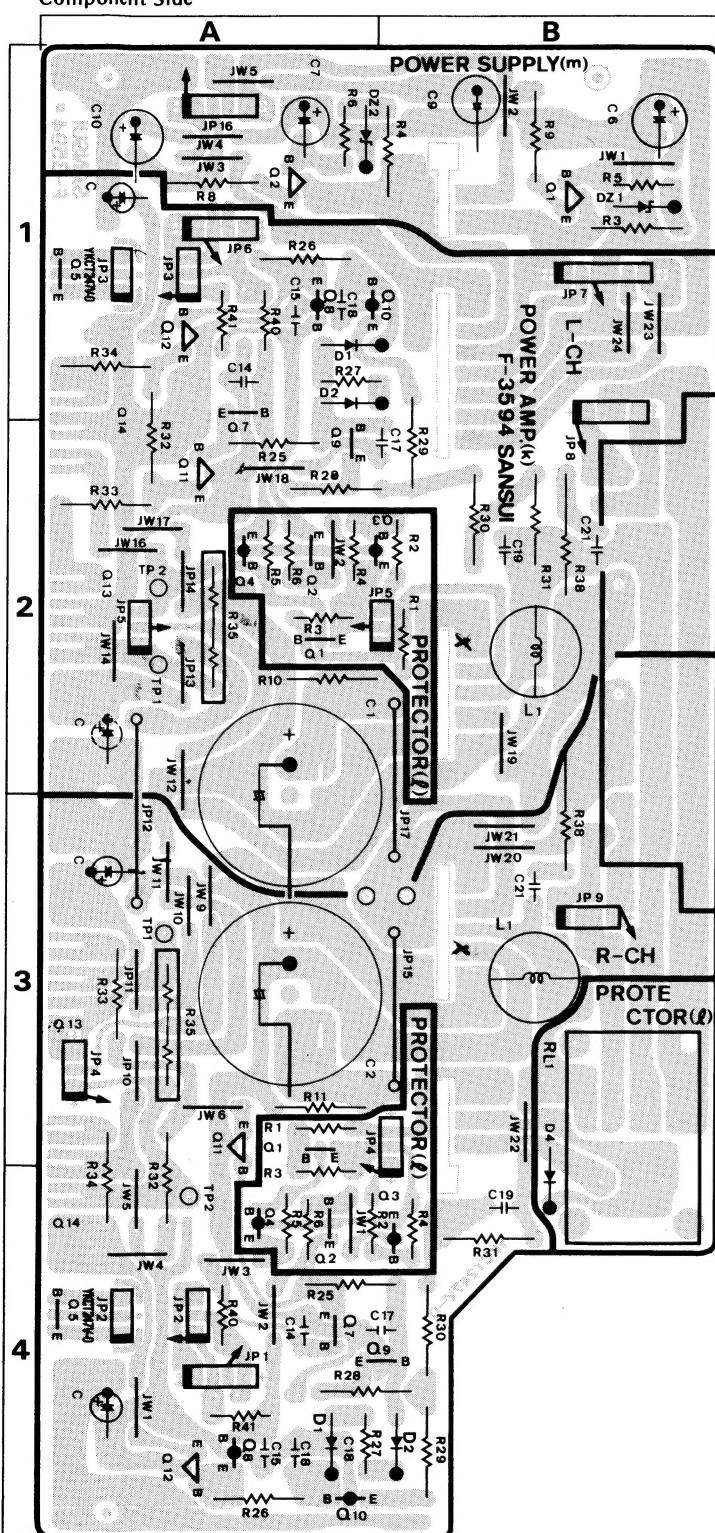
## Abbreviations

**C.R.** . . . . . Carbon Resistor  
**S.R.** . . . . . Solid Resistor  
**Ce.R.** . . . . . Cement Resistor  
**M.R.** . . . . . Metal Film Resistor  
**F.R.** . . . . . Fusing Resistor  
**N.I.R.** . . . . . Non-Inflammable Resistor  
**C.C.** . . . . . Ceramic Capacitor  
**C.T.** . . . . . Ceramic Capacitor, Temperature Compensation  
**E.C.** . . . . . Electrolytic Capacitor

E.L.	Low Leak Electrolytic Capacitor
E.B.	Bi-Polar Electrolytic Capacitor
E.BL.	Low Leak Bi-Polar Electrolytic Capacitor
Ta.C.	Tantalum Capacitor
F.C.	Film Capacitor
M.P.	Metallized Paper Capacitor
P.C.	Polystyrene Capacitor
G.C.	Gimmie Capacitor

2-5. F-3594 Power Amp Circuit Board (Stock No. 00662601 = AU-D22)

## Component Side

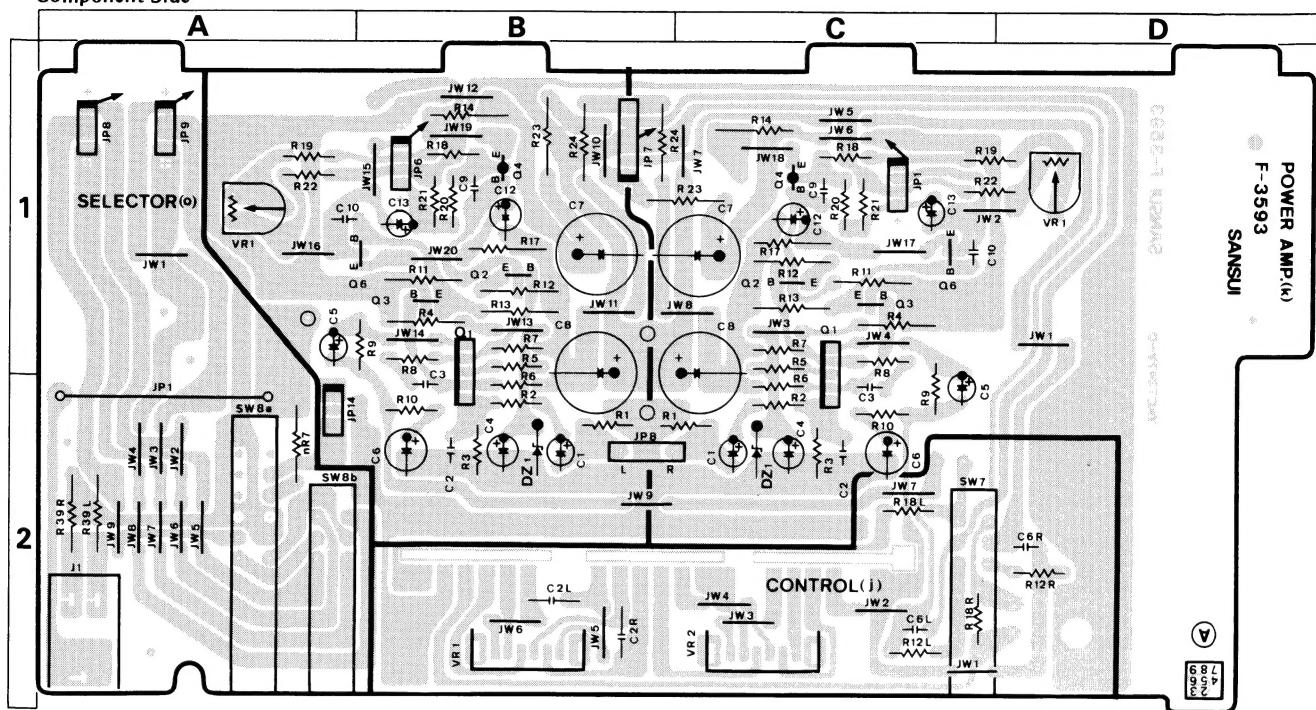


## Parts List

<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
<b>● Transistor</b>		
kQ5	03068301	2SC2320
or 07194801		2SC1815
or 03059501		2SC945
kQ7	03062801	2SC1735
kQ8	03007201	2SA850
kQ9	07263501	2SD600
kQ10	07263401	2SB631
kQ11	03086101	2SD357
kQ12	03034401	2SB527
kQ13	46117901	2SC2577LBR
kQ14	46117801	2SA1102LBR
<b>● Diode</b>		
kD1, 2	03117600	1S2473
kR35	46184300	0.22Ω x 2 3W Ce.R.
kR38	00185500	10Ω 2W N.I.R.
kL1	46027200	Peaking Coil 1μH
<b>● Transistor</b>		
IQ1	03068301	2SC2320
or 03059501		2SC945
or 07194801		2SC1815
IQ2	03068301	2SC2320
or 03059501		2SC945
or 07194801		2SC1815
IQ3	03012701	2SA999
or 07197001		2SA733A
or 07194701		2SA1015
IQ4	03012701	2SA999
or 07197001		2SA733A
or 07194701		2SA1015
<b>● Diode</b>		
ID4	03117700	10E-2
IRL1	46152000	Relay
<b>● Transistor</b>		
mQ1	03085201	2SD438
mQ2	03033601	2SB560MP
<b>● Zener Diode</b>		
mDZ1, 2	03180000	RD22E-B
mC1, 2	00316100	6800μF 50V E.L.
	46094600	8P Output Terminal

## 2-6. F-3593 Pre Drive Amp Circuit Board (Stock No. 00662501 = AU-D22)

Component Side



### Parts List

Parts No.	Stock No.	Description
jVR1	46159800	Variable Resistor 50kΩ (C) x 2, bass
jVR2	46159800	Variable Resistor 50kΩ (C) x 2, treble
<b>•Transistor</b>		
kQ1	03602901	2SA798
kQ2	03062801	2SC1735
	or 46127901	2SC2910
kQ3	03062801	2SC1735
	or 46127901	2SC2910
kQ4	03007901	2SA899
kQ6	03064001	2SC1904

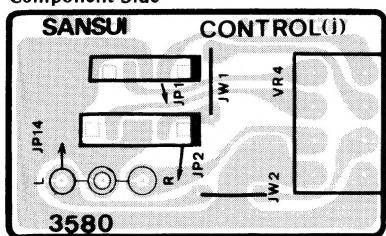
Parts No.	Stock No.	Description
•Zener Diode		
kDZ1	03179000	RD13E-B
<b>kVR1</b>		
	07240900	Semi Variable Resistor 500Ω (B), bias
oS7	11319501	Push Switch, tone
oS8	46162000	Push Switch, speaker A/B
oJ1	07204100 46096600	Head Phone Jack (Silver Model) Head Phone Jack (Black Model)

• Note: The circuit board, F-3580, F-3581, F-3583, F-3582, F-3591, F-3584, F-3334, F-3585, F-3579, F-3586 & F-3587 are not supplied as the assembled. However, the individual parts on the circuit board are provided by orders.

## 2-7. F-3580 Master Volume Circuit Board

Component Side

(AU-D33/D22)



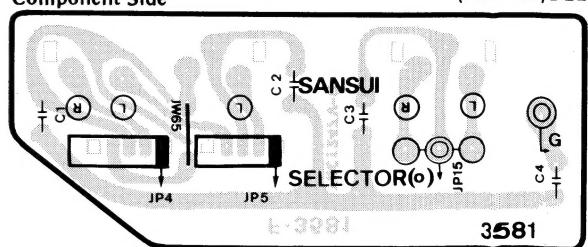
### Parts List

Parts No.	Stock No.	Description
jVR4	46159900	Variable Resistor 150kΩ (B) x 2

## 2-8. F-3581 Input Terminal Circuit Board

Component Side

(AU-D33/D22)

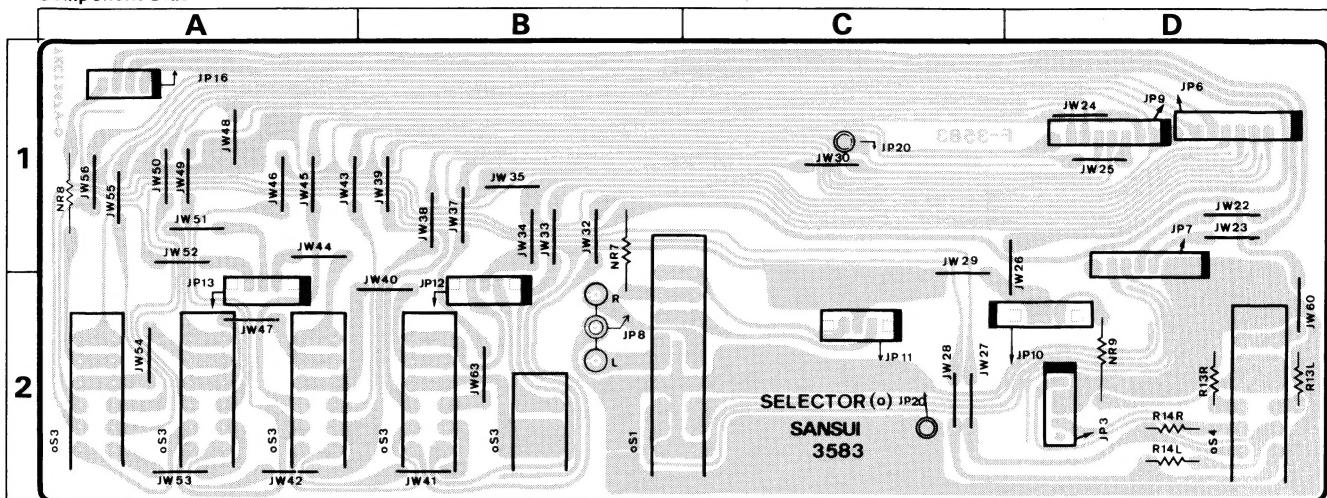


### Parts List

Parts No.	Stock No.	Description
	07249000	2P Input Terminal, phono
	07249100	4P Input Terminal, turner, aux

## 2-9. F-3583 Input Selector SW. Circuit Board (AU-D33/D22)

### **Component Side**



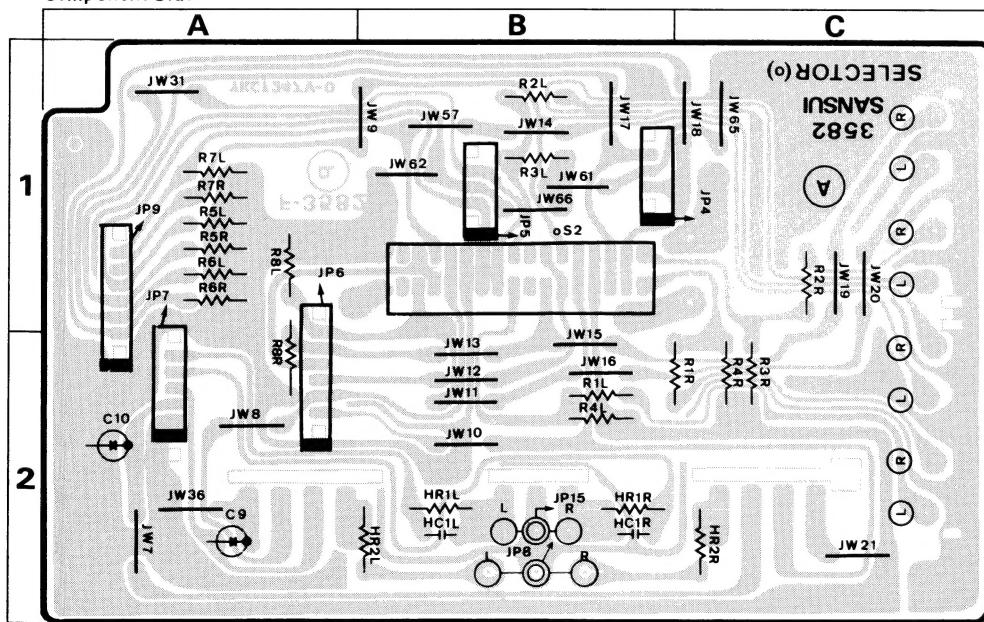
## Parts List

<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
oS3	46162200	Push Switch, input selector
oS4	46161900	Push Switch, muting

<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
<AU-D33>		
oS1	46162300	Push Switch, MM/MC
<AU-D22>		
oS1	46162400	Push Switch, MM/MC

## 2-10. F-3582 Recording Selector Circuit Board (AU-D33/D22)

## **Component Side**

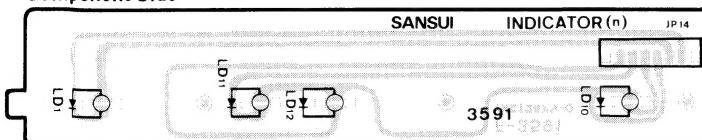


## Parts List

<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
oS2	07200200	Rotary Slide Switch
	07249100	4P Input Terminal, tape 1, 2

## 2-11. F-3591 Power, Speaker Indicator Circuit Board (AU-D33/D22)

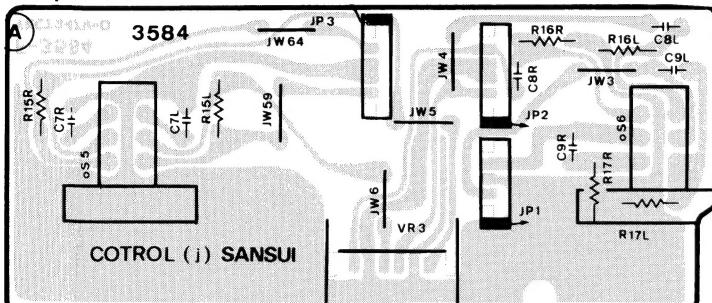
## **Component Side**



Parts List		
Parts No.	Stock No.	Description
nLD1	46169300	Light Emitting Diode SEL-1210S
nLD12	46169300	Light Emitting Diode SEL-1210S
<AU-D33>		
nLD10	46174000	Light Emitting Diode SLP-470C
nLD11	46169300	Light Emitting Diode SEL-1210S

## 2-12. F-3584 Balance Volume, Accessory Circuit Board (AU-D33/D22)

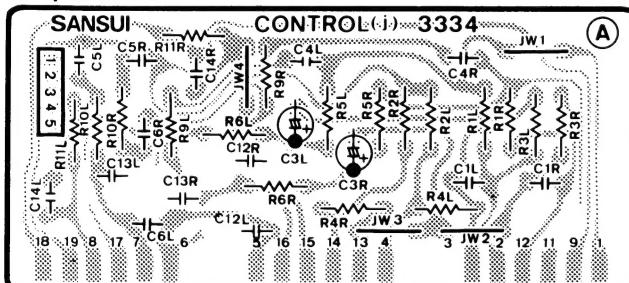
## **Component Side**



<b>Parts List</b>		
<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
jVR3	46097500	Variable Resistor 250kΩ (MN) x 2
oS5	11319501	Push Switch, high filter
oS6	11319501	Push Switch, loudness

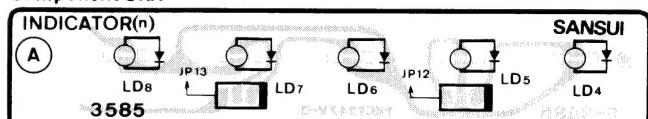
## **2-13. F-3334 Control Circuit Board (AU-D33/D22)**

## Component Side



# F-3585 Input Source Indicator Circuit Board

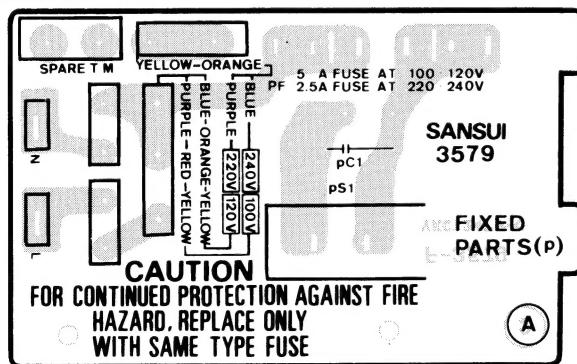
Component Side (AU-D33/D22)



Parts List		
Parts No.	Stock No.	Description
nLD4 ~ 6	46173900	Light Emitting Diode SLP-270C
nLD7, 8	46174000	Light Emitting Diode SLP-470C

## 2-14. F-3579 Power SW. Circuit Board (AU-D33/D22)

## Component Side



Parts List		
Parts No.	Stock No.	Description
pC1	08302600	0.01μF 400V C.C.
<AU-D33>		
pF1	07188700	Fuse 125V 2.5A
pS1	07224300	Push Switch
<AU-D22>		
pF1	07188500	Fuse 250V 1.5A
pS1	46087300	Push Switch

## 2-16. F-3586 MC/MM Indicator Circuit Board

## Parts List

Parts No.	Stock No.	Description
nLD2	46173900	Light Emitting Diode SLP-270C
nLD3	46169300	Light Emitting Diode SEL-1210S

## 2-17. F-3587 Muting Indicator Circuit Board

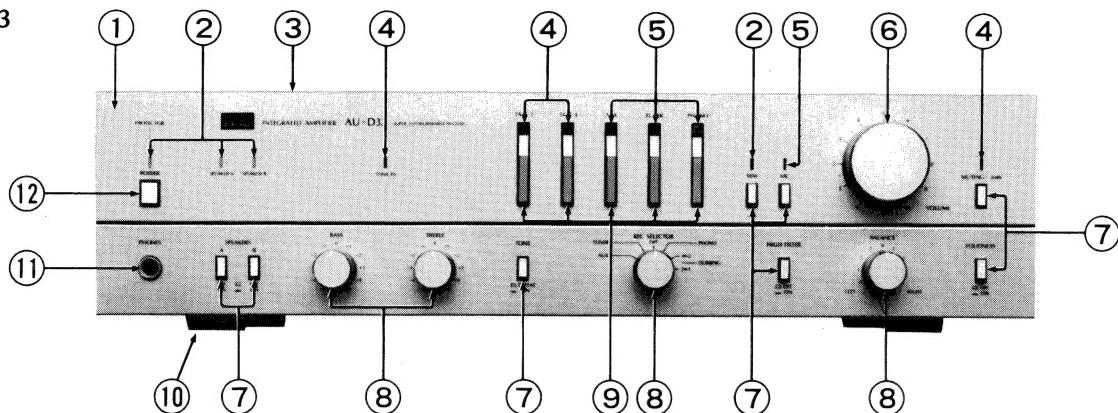
## Parts List

<b>Parts No.</b>	<b>Stock No.</b>	<b>Description</b>
nLD9	46174000	Light Emitting Diode SLP-470C

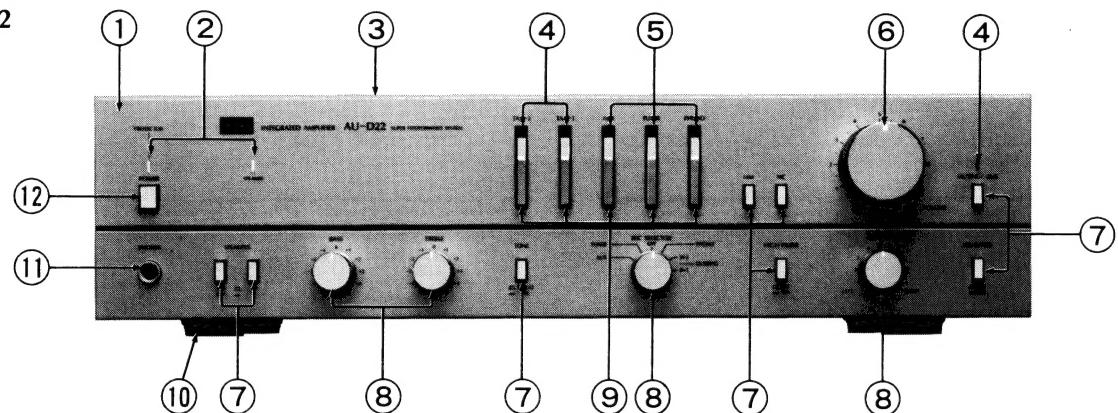
### 3. OTHER PARTS

#### 3-1. Front View

A) AU-D33



B) AU-D22



Parts List <Front View, AU-D33/D22>

Parts No.	Stock No.	Description
2	46169300	Light Emitting Diode SEL-1210S
4	46174000	Light Emitting Diode SLP-470C
5	46173900	Light Emitting Diode SLP-270C
10	07822700	Leg
<Silver Model>		
1	07814000	Front Panel Ass'y <AU-D33>
	07815800	Front Panel Ass'y <AU-D22>
3	07812000	Bonnet
6	07808900	Knob, volume
7	07809500	Push Knob, accessory
8	07808700	Knob, balance, bass, treble, rec selector
9	07809300	Push Knob, input selector
11	07204100	Head Phone Jack
12	07809700	Push Knob, power

<Black Model>

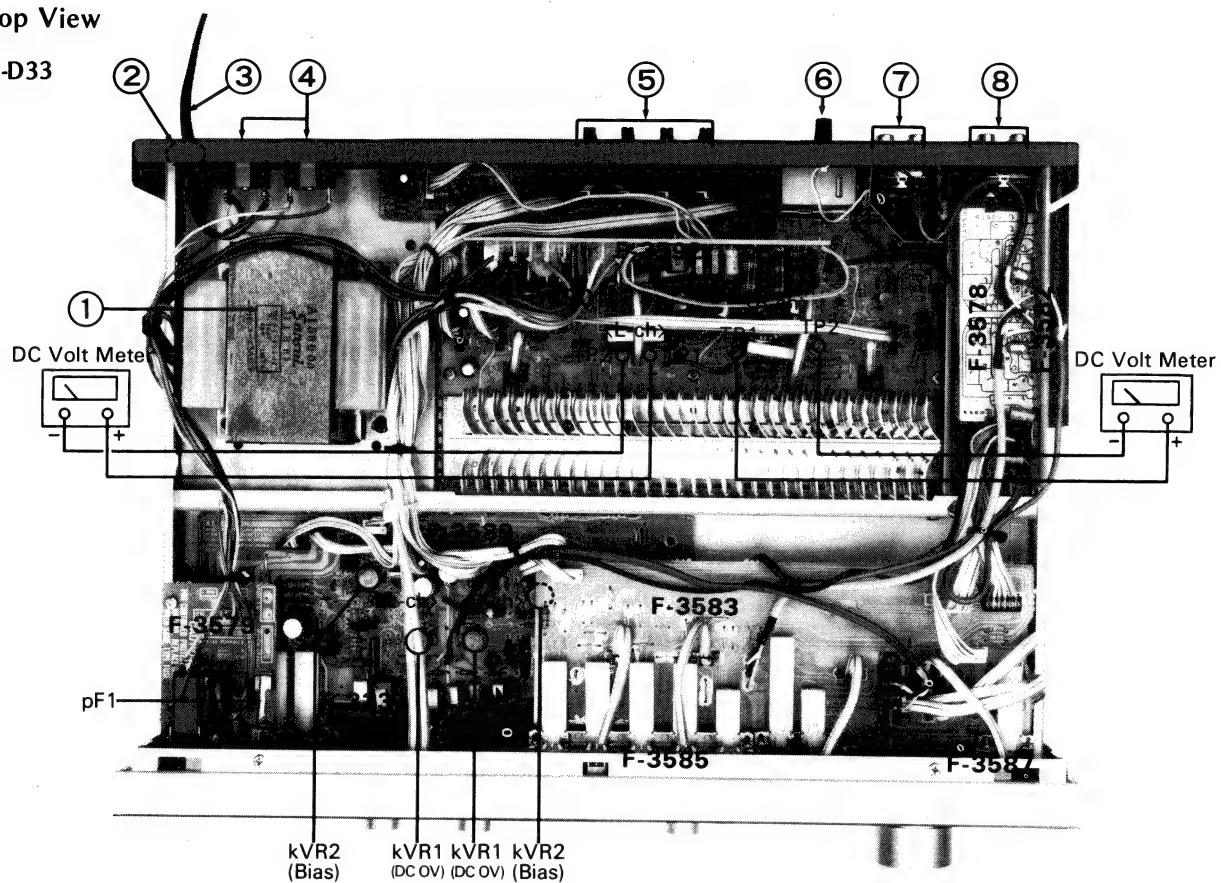
1	07814100	Front Panel Ass'y <AU-D33>
	07815700	Front Panel Ass'y <AU-D22>
3	07812100	Bonnet
6	07809000	Knob, volume
7	07809600	Push Knob, accessory
8	07808800	Knob, balance, bass, treble, rec selector
9	07809400	Push Knob, input selector
11	46096600	Head Phone Jack
12	07809800	Push Knob, power

Parts List <Top View, AU-D33/D22>

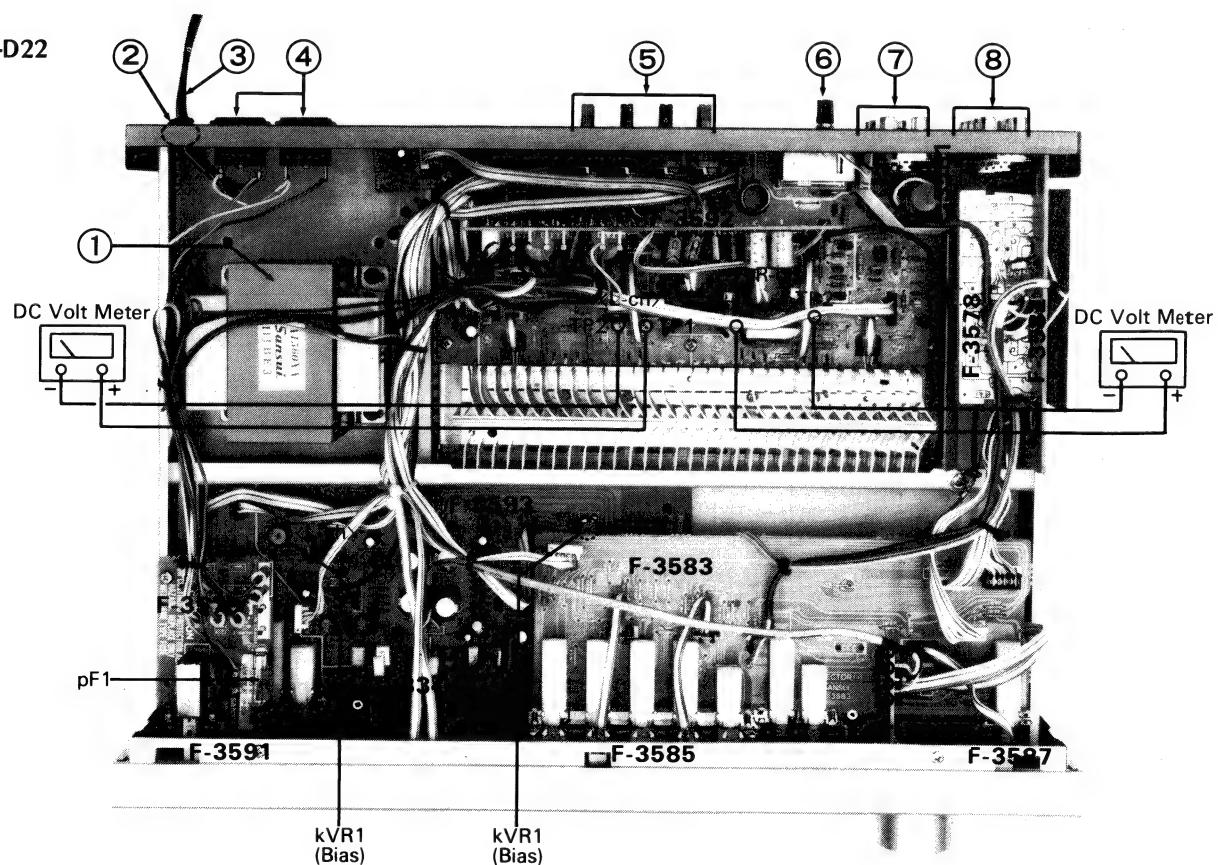
Parts No.	Stock No.	Description
1	15005001	Power Transformer <AU-D33>
	15005101	Power Transformer <AU-D22>
2	39106000	Strain Relief
3	38004700	Power Supply Cord
4	07189600	AC Outlet
5	46094600	8P Output Terminal
6	22301500	Ground Terminal
7	07249000	2P Input Terminal, phono
8	07249100	4P Input Terminal, tuner, aux, tape
pF1	07188700	Fuse 125V 2A <AU-D33>
	07188500	Fuse 250V 1.5A <AU-D22>

### 3-2. Top View

A) AU-D33



B) AU-D22



## 4. ADJUSTMENTS

### 4-1. Driver Circuit Adjustment (See Top View on page 10)

Note: 1) Master Volume . . . Minimum

2) Room Temperature .  $18^{\circ}\text{C} \sim 28^{\circ}\text{C}$  ( $65^{\circ}\text{F} \sim 83^{\circ}\text{F}$ )

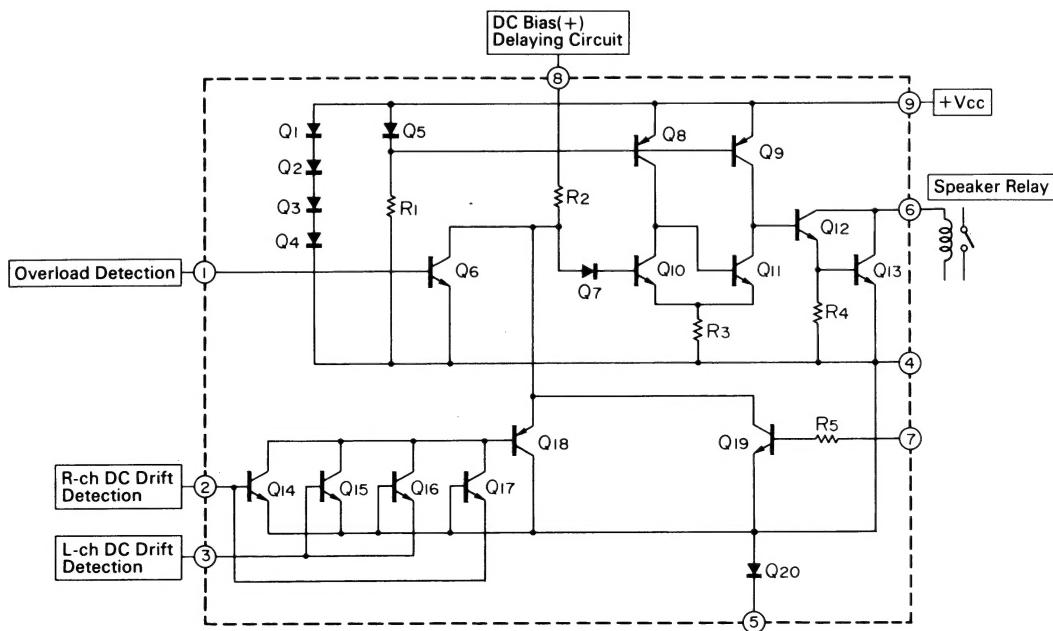
#### A) AU-D33

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	DC 0V Adj. L-CH	Speaker Terminal (L-ch)	kVR1, L-ch (F-3589)	DC $0\text{V} \pm 20\text{ mV}$	Before turning ON power switch, set kVR1 (F-3589) to center position.
2.	DC 0V Adj. R-CH	Speaker Terminal (R-ch)	kVR1, R-ch (F-3589)	DC $0\text{V} \pm 20\text{ mV}$	
3.	Bias Current Adj. L-CH	Between emitters of power transistors (kQ16 & kQ17) (Between TP1 & 2)	kVR2, L-ch (F-3589) at 1 minute after turning the power ON.	DC $4\text{ mV}$	<ul style="list-style-type: none"> <li>Before adjustment, the temperature of the transistors and the radiator must be same as room temperature.</li> <li>Before turning ON power switch, set kVR2 (F-3589) fully counterclockwise.</li> </ul>
4.	Bias Current Adj. R-CH	Between emitters of power transistors (kQ16 & kQ17) (Between TP1 & 2)	kVR2, R-ch (F-3589) at 1 minute after turning the power ON.	DC $4\text{ mV}$	

#### B) AU-D22

STEP	SUBJECT	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	Bias Current Adj. L-CH	Between emitters of power transistors (kQ13 & kQ14) (Between TP1 & 2)	kVR1, L-ch (F-3593)	DC $4\text{ mV}$	<ul style="list-style-type: none"> <li>Before adjustment, the temperature of the transistors and the radiator must be same as room temperature.</li> <li>Before turning ON power switch, set kVR1 (F-3593) fully counterclockwise.</li> </ul>
2.	Bias Current Adj. R-CH	Between emitters of power transistors (kQ13 & kQ14) (Between TP1 & 2)	kVR1, R-ch (F-3593)	DC $4\text{ mV}$	

## 5. INTERIOR BLOCK DIAGRAM OF IC, TA7317P



A

B

C

D

E

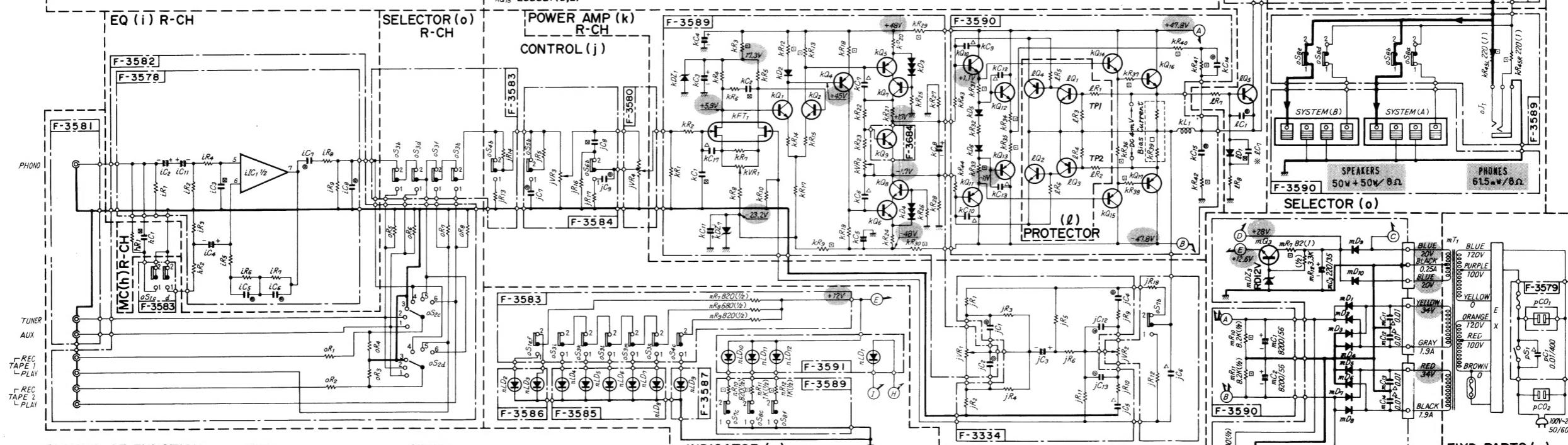
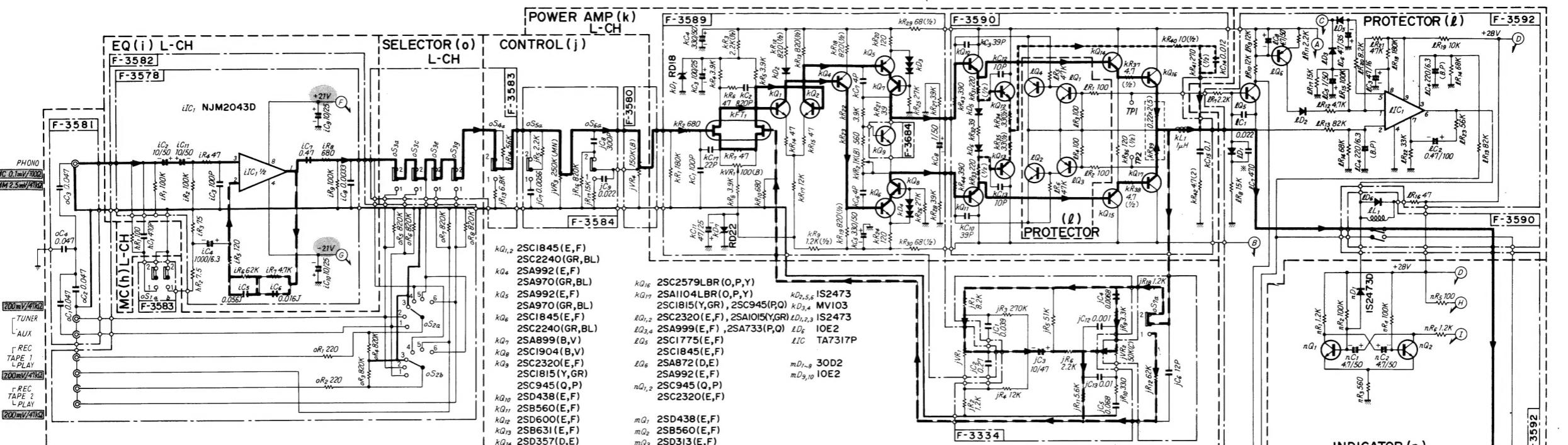
F

G

H

## 6. SCHEMATIC DIAGRAM 6-1. AU-D33

\* Design and specifications subject to change without notice for improvement.  
 \* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.  
 \* Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.



### SYMBOL OF FUNCTION

- (h) MC
- (i) EQ
- (j) CONTROL
- (k) POWER AMP
- (l) PROTECTOR
- (m) POWER SUPPLY
- (n) INDICATOR
- (o) SELECTOR
- (p) FIXD PARTS

\* JAPAN Only

### SYMBOL

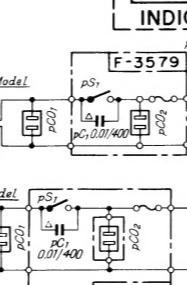
- △ Ceramic
- Mylar
- ◎ Styrol
- Tantalum Electrolytic
- Aluminum Electrolytic
- Low-Leak Bi-Polar Electrolytic (B.P.)
- Polypropylene Film
- Polycarbonate Film
- Low-Leak Bi-Polar Electrolytic (L.B.)
- Non-Inflammable Resistor
- Metal Film Resistor
- Cement Resistor
- Non-Inductive Cement Resistor

### RESISTORS

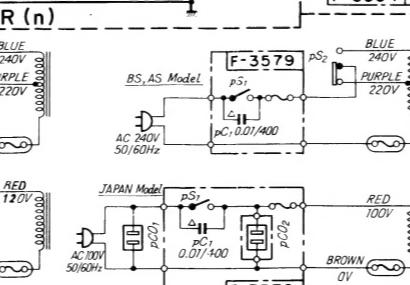
Are in ohms, 1/4 Watts,  
±5% Tolerance  
Unless Otherwise Noted  
K-K2, M-M2

### CAPACITORS

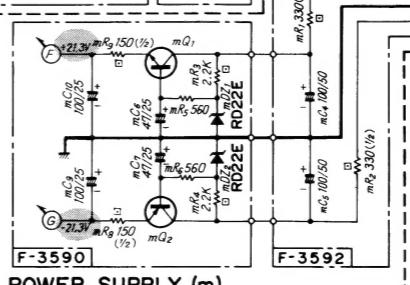
Are in  $\mu$ F, Unless Otherwise  
Noted, P-Pf  
TOLERANCE  
 $J \pm 5\%$ ,  $G \pm 2\%$ ,  $F \pm 1\%$   
Each D.C. Voltage shows the  
nominal value in volts at  
no input signal  
Electrolytic Capacitor:  
Capacitance ( $\mu$ F)/Voltage (V)



### INDICATOR (n)



### POWER SUPPLY (m)



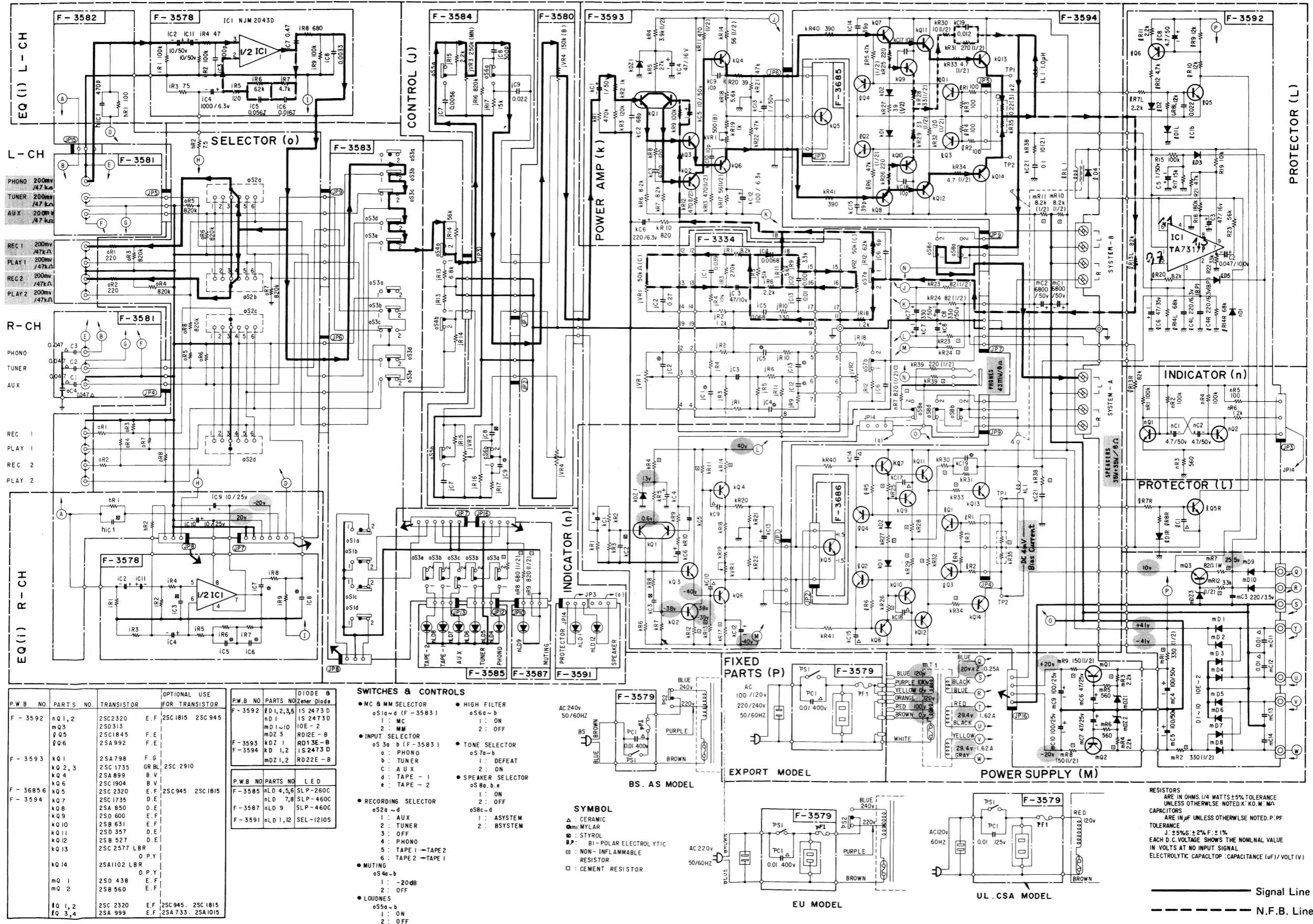
- MC & MM SELECTOR
  - HIGH FILTER
  - S<sub>5a-e</sub>-b
  - 2: OFF
- LOUDNES
  - S<sub>5a-e</sub>
  - 1: ON
  - 2: OFF
- TONE SELECTOR
  - S<sub>5a-f</sub>
  - 1: TUNER
  - 2: OFF
- TAPE SELECTOR
  - S<sub>5a-f</sub>
  - 1: TAPE-1
  - 2: TAPE-2
- RECORDING SELECTOR
  - 1: AUX
  - 2: TUNER
  - 3: OFF
  - 4: PHONO
  - 5: TAPE 1 → 2
  - 6: TAPE 2 → 1
- MUTING
  - S<sub>5a-f</sub>
  - 1: ON
  - 2: OFF

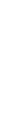
2SA733	2SA899
2SA872	2SB691
2SA970	2SC1904
2SA992	2SD600
2SA999	2SB560MP
2SA1015	2SC945
2SB527	2SC1775
2SD357	2SC1815
2SD438	2SC1845
2SC2320	2SC2246
2SC438	2SC2320
2SD313	2SC438
TA7317P	2SA1104LB R
NJM2043	2SC2579LBR
RD12E	RD18E
RD22E	DIGIT
μPA68H	OE2
10E2	IS2473
MV-103	

Signal Line  
N.F.B. Line  
F.F. Line

AU-D33/D22 AU-D33/D22

6-2. AU-D22



2SA992	2SA850
2SA999	2SC1735
2SA1015	
2SA-733A	
2SC860MP	
ZSC945	
ZSC1815	
2SC1845	2SA899
2SC2320	2SC6631
2SC2910	2SC1904
2SD438	2SD600
	
	
	
	
	
	
	
	2SA899
	2SC6631
	2SC1904
	2SD600
	2SA1102LBR
	2SC2577LBR
	TA7317P
	NJM2043D
	10E2
	1S2473
	RD12EB
	RD13EB
	RD22EB

2  
3  
4  
5

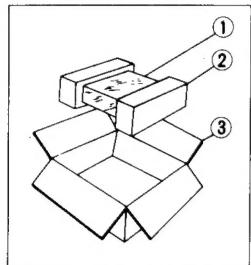
## 7. PACKING LIST

**•AU-D33**

Parts No.	Stock No.	Description
1	91167810	Vinyl Cover
2	07811900	Styrofoam Packing
3	07811100	Carton Case (Silver Model)
	07810900	Carton Case (Black Model)

**•AU-D22**

Parts No.	Stock No.	Description
1	91167810	Vinyl Cover
2	07811900	Styrofoam Packing
3	07811300	Carton Case (Silver Model)
	07811200	Carton Case (Black Model)



## 8. ACCESSORY LIST

**•AU-D33**

Stock No.	Description
46125300	Operating Instruction

**•AU-D22**

Stock No.	Description
46141700	Operating Instruction